

**In the Claims**10/500264  
DT04 Rec'd PCT/PTO 18 JUN 2007

Please amend the claims as follows:

1. (Currently amended) A method of increasing the content of one or more transgene-coded biomolecules in an organism, the method comprising ~~characterized by~~ changing the distribution of ATP and/or ADP in cells of the organism.
2. (Original) The method according to claim 1, wherein the expression of the transgene-coded biomolecules is constitutive or is regulated temporally, locally or inducibly.
3. (Currently amended) The method according to claim ~~1 or~~ 2, wherein several transgene-coded biomolecules are expressed in parallel or sequentially.
4. (Currently amended) The method according to claim 1 ~~any one of claims 1 to 3~~, wherein the organism is a plant or an animal.
5. (Original) The method according to claim 4, wherein the plant comprises gramineae, chenopodiaceae, leguminosae, brassicaceae, solanaceae, fungi, mosses, and algae.
6. (Original) The method according to claim 4, wherein the plant comprises wheat, barley, rice, corn, sugar beets, sugarcane, rape, mustard, oilseed rape, flax, safflower, peas, beans, lupins, tobacco, lucerne, soya, bananas, ananas, potatoes, sunflowers, melons, sweet potatoes, spelt, alfalfa, paprika, topinambur, tomatoes, durum wheat, rye or batata.
7. (Currently amended) The method according to claim 1 ~~any of claims 1 to 6~~, wherein the transgene encodes a peptide, protein or a nucleic acid.
8. (Currently amended) The method according to claim 7 ~~any of claims 1 to 7~~, wherein the transgene codes for antibodies, aptamers, receptors, enzymes, growth factors, hormones, specific antigen and/or antibody molecules, interferons, immunoglobulins, growth hormones, insulin, collagen, plasminogen activator, blood factors such as factors I to XII, histocompatibility antigens,

enzymes, tumor marker proteins and/or viral proteins, ribozymes, single-stranded or double-stranded DNA or RNA.

9. (Currently amended) The method according to claim 1 ~~any of claims 1 to 8~~, wherein ~~characterized in that~~ the activity or concentration of a protein involved in the subcellular distribution of ATP and/or ADP is increased or reduced in the organism.

10. (Currently amended) The method according to claim 1 ~~any of claims 1 to 9~~, wherein ~~characterized in that~~ the expression of a gene which codes for a protein involved in the subcellular distribution of ATP and/or ADP is increased or decreased in the organism.

11. (Original) The method according to claim 10, characterized in that the expression is constitutive or regulated temporally, locally or inducibly.

12. (Currently amended) The method according to claim 10 ~~or 11~~, characterized in that the expression of the plastidial ATP/ADP transporter is increased or decreased.

13. (New) The method according to claim 4, wherein the transgene encodes a peptide, protein or a nucleic acid.

14. (New) The method according to claim 8, wherein the activity or concentration of a protein involved in the subcellular distribution of ATP and/or ADP is increased or reduced in the organism.

15. (New) The method according to claim 11, wherein the expression of the plastidial ATP/ADP transporter is increased or decreased.

16. (New) A method of modifying distribution of ATP and/or ADP in cells of an organism to modify expression of a transgene, the method comprising:

introducing a first expression construct into the host organism, wherein the expression construct comprises a sense gene for plastidial ATP/ADP transporter protein;

culturing the organism under conditions suitable for the expression of the plastidial ATP/ADP transporter protein thereby producing a transgenic organism with a modified distribution of ATP and/or ADP; and

introducing a second expression construct comprising a transgene encoding a target protein into the transgenic organism, wherein the modified distribution of ATP and/or ADP in the transgenic organism increases or decreases the expression of the target protein.

17. (New) The method according to claim 16, wherein the organism is a plant selected from the group consisting of gramineae, chenopodiaceae, leguminosae, brassicaceae, solanaceae, fungi, mosses, and algae.

18. (New) The method according to claim 17, wherein the plant comprises wheat, barley, rice, corn, sugar beets, sugarcane, rape, mustard, oilseed rape, flax, safflower, peas, beans, lupins, tobacco, lucerne, soya, bananas, ananas, potatoes, sunflowers, melons, sweet potatoes, spelt, alfalfa, paprika, topinambur, tomatoes, durum wheat, rye or batata.

19. (New) The method according to claim 16 wherein the transgene encodes a peptide, protein or a nucleic acid.